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STATINTL

PHOTOMICROGRAPHIC ENLARGER

PRELIMINARY INFORMATION

25 May 1963

The Photomicrographic Instrument enlarges small areas of images on film. The unit is specifically designed for extremely simple operation. It allows photointerpreters to rapidly and simply record the images seen through their microscopes.

Specifically, the Photomicrographic Enlarger

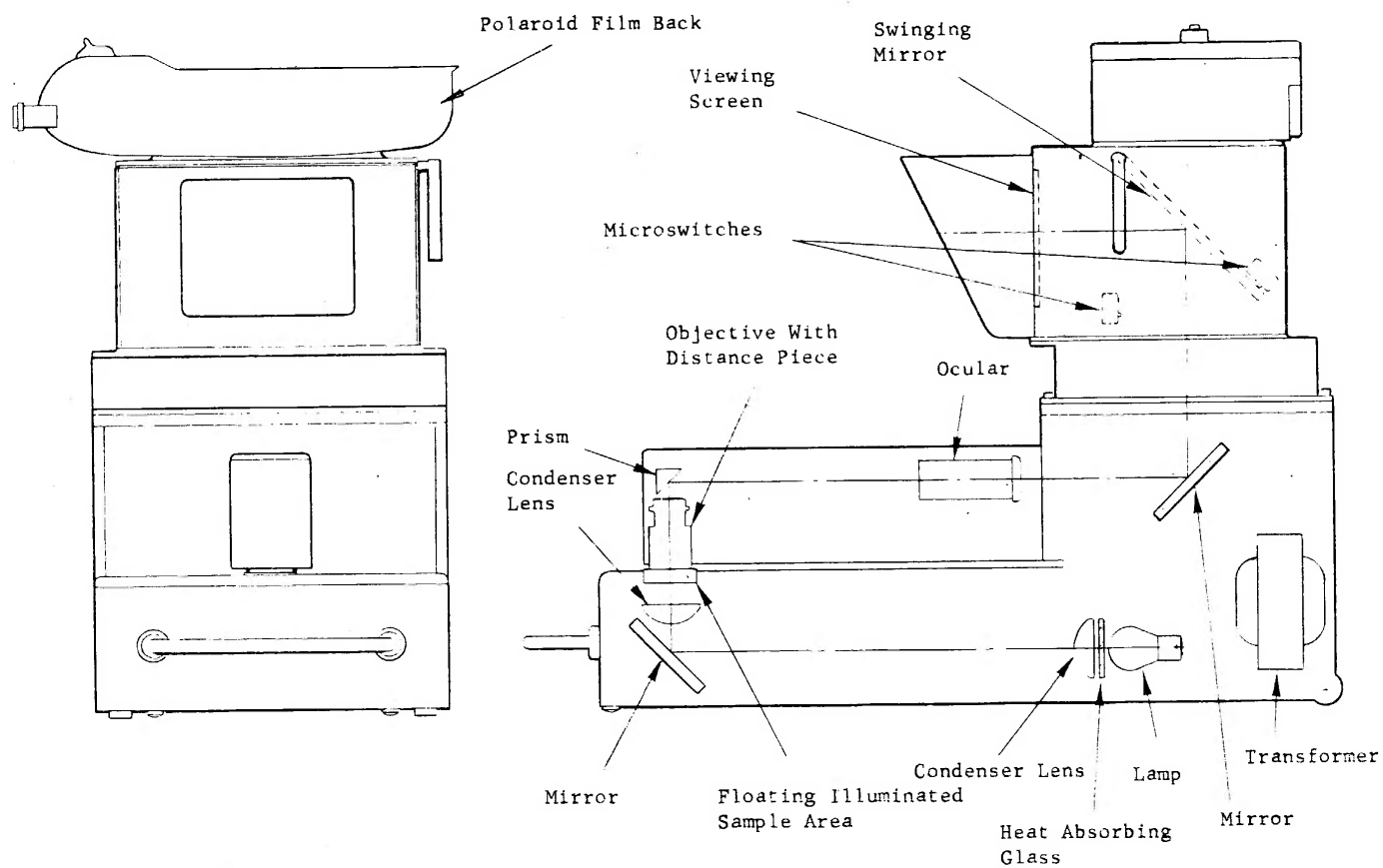
1. Displays and enlarges an area approximately 1.7×1.3 mm. $62 \times$ to yield a positive $3\frac{1}{4} \times 4\frac{1}{4}$ " Polaroid black and white or color print.
2. Requires no focusing or any other adjustment.
3. Requires about 20 seconds to make an enlargement.
4. Has a high-contrast resolving power of 635 $1/\text{mm}$.
5. Accepts films up to $9\frac{1}{2}$ " wide.
6. Is designed for table-top use in ambient light.

The prototype unit employs an exposure timer which is external to the enlarger. Once experience is obtained to determine the various exposure times required, a small timer can be included in future units of the enlarger.

Although this particular fixed-focus prototype unit was designed specifically for the enlargement of film images, it is expected that a modified unit may find much use in the photomicrography of biological or medical specimen. The required modification consists of a focusing arrangement in the arm to accommodate variations in microscope cover glass thickness. Another modification can be the rapid interchangeability of objectives for different degrees of magnification.

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Photomicrographic Enlarger

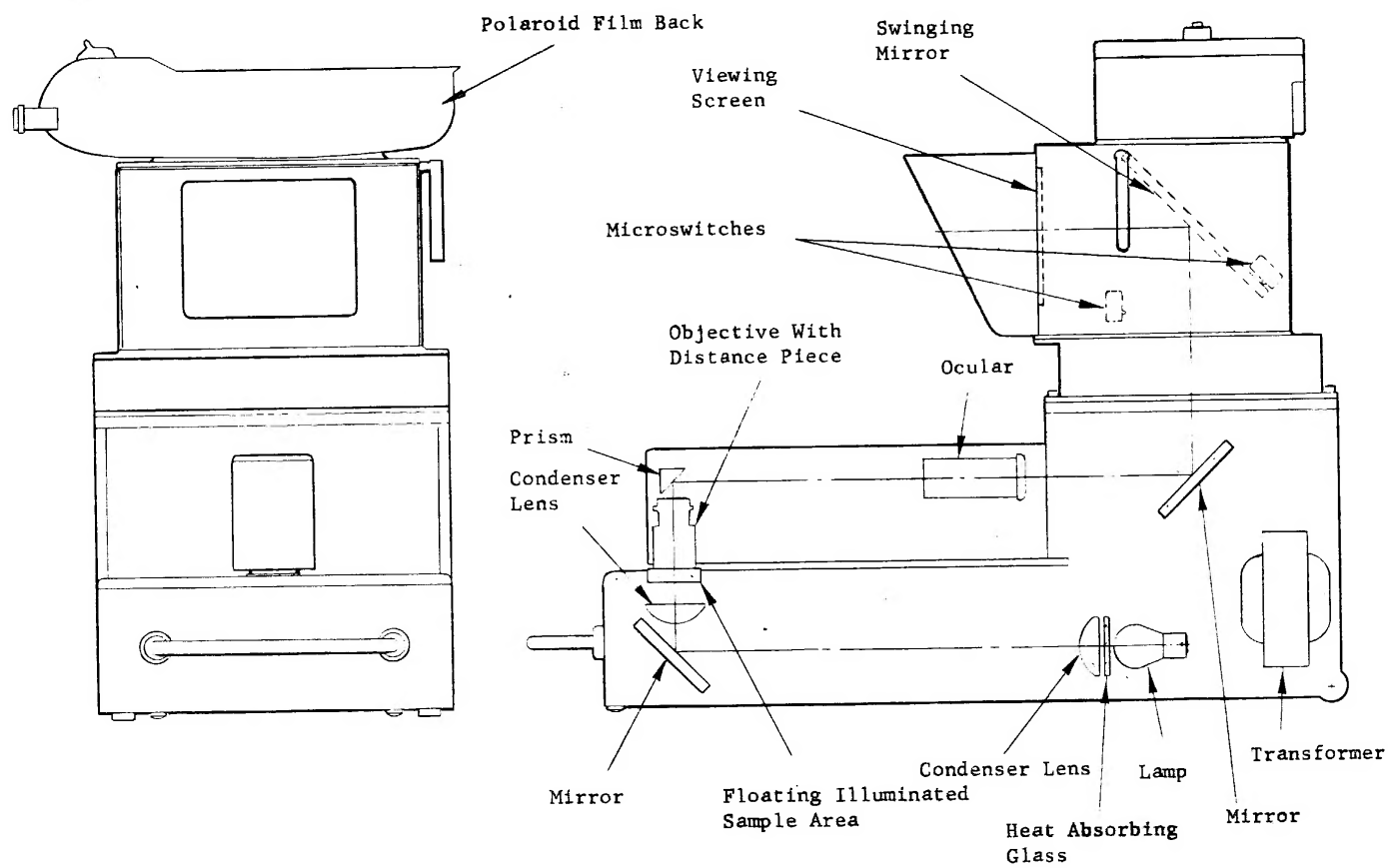
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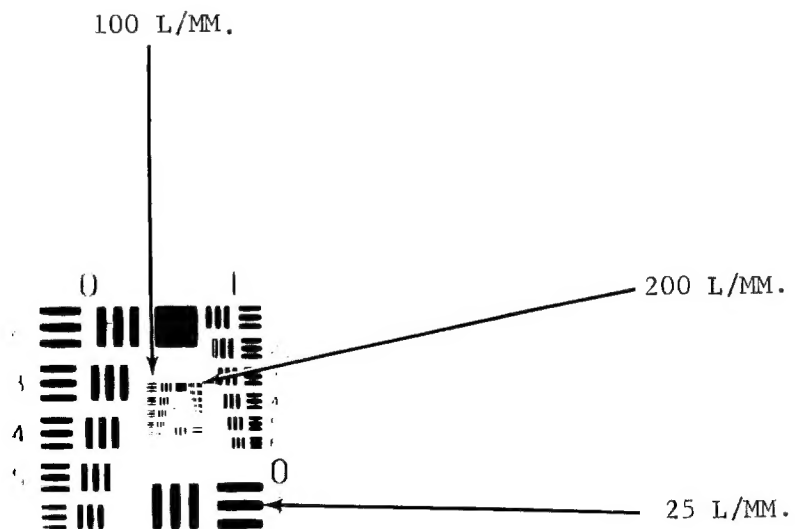
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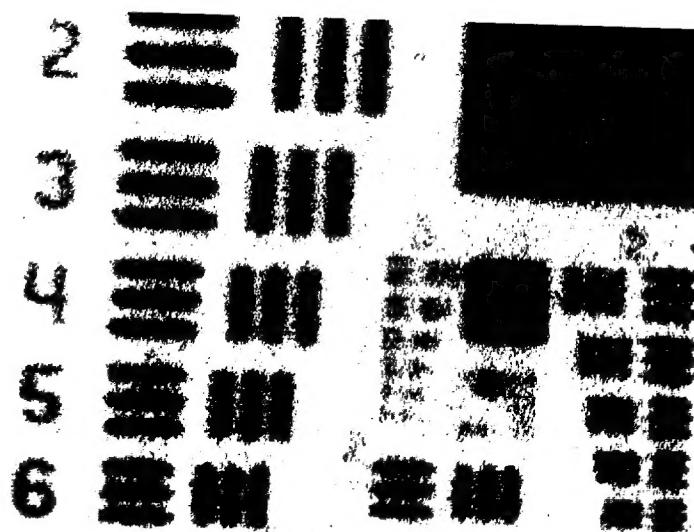


ENLARGEMENT OF RESOLUTION TARGET →

RESOLVING POWER: 635 L/MM.

THIS IS A STRIP OF FILM FROM A GEOCON LENS TEST PERFORMED
IN THE QUALITY CONTROL DEPARTMENT.

12 12 12 12 12 12 12 12



THIS IS AN ENLARGEMENT OF THE ABOVE. PICTURES LIKE THIS ONE CAN BE
SUBMITTED WITH TEST REPORTS TO THE CUSTOMER.

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